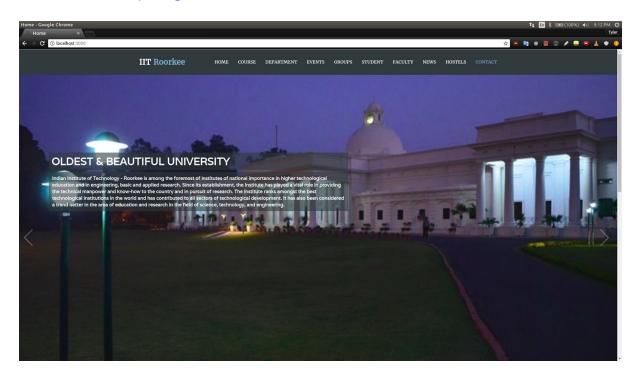Database Management System

Course Project - SQL Queries

Project No: 2D
MockCollege Database

GithubLink: https://github.com/msharsha555/Classroom

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The queries being executed when we open the website are..

Home Page:

Events(home)
→ SELECT Title,Post_timestamp,Central_image_Url FROM Events ORDER BY Post_timestamp DESC Limit 5

News(home)
→ SELECT Title,Post_timestamp,Image_Url FROM News ORDER BY Post_timestamp DESC Limit 5

Department:
→ SELECT * FROM Department

Individual Department (dept_name)
→ SELECT * FROM Department WHERE ID = **dept_name**

Department Image
→ SELECT * FROM Dept_images WHERE d_ID = **dept_name**

Department Specific Events
→ SELECT * FROM Department,(SELECT * FROM Dept_event,Events WHERE Events.ID=Dept_event.e_ID) as NEW WHERE Department.ID=NEW.d_ID AND Department.ID = **dept_name**

Department Specific News
→ SELECT * FROM Department,(SELECT * FROM Dept_notice,News WHERE News.ID=Dept_notice.n_ID) as NEW WHERE Department.ID=NEW.d_ID AND Department.ID = **dept_name**

Events (event_name)
→ SELECT * FROM Events WHERE ID = **event_name**
→ SELECT * FROM (Event_images natural join Events) WHERE e_ID = **event_name**

Groups
→ SELECT * FROM Groups

Courses
→ SELECT * FROM Courses

Faculty
→ SELECT * FROM Faculty

Hostels
→ SELECT * FROM Hostel

News
→ SELECT * FROM News

Student
→ SELECT * FROM Student

Events
→ SELECT * FROM Events

The extra features which we wanted to implement are the following -
1. For the the courses, we wanted to show the department , faculty and the students enrolled in that course . The queries for that goes as follows-

   *Our database doesn't have the data regarding the courses in which students are present..first that needs to be included. Let that be "course_data" which includes c_id - course id and s_id - student id .

   -->SELECT * FROM Course,Course_data WHERE Course.ID=Course_data.c_id AND Course.ID = course id; - we will get the details of the students in the course from this

   -->SELECT * FROM Course,Department WHERE Course.D_id=Department.ID AND Department.ID = departmentid of the course; - we will get the details of the department of course from this

   -->SELECT * FROM Course,Faculty WHERE Course.faculty_ID=Faculty.ID AND Faculty.ID = faculty id of the course; - we will get the details of the faculty of the course from this

2. For the students, we wanted to show his department details and the courses he has enrolled in . The queries for that goes as follows-
   -->SELECT * FROM Student,Department WHERE Student.department_id=Department.ID AND Department.ID = departmentid of the student; - we will get the details of the department of student from this

-->SELECT * FROM Course,Course_data WHERE Student.ID=Course_data.s_id AND Student.ID = student id; - we will get the details of the courses of the student from this

3. For the news, we wanted to create separate pages for it
    -->'SELECT * FROM News WHERE ID =?',[str] for the details of the news

4. For the faculty, we wanted to create a page for him and show his details along with the courses taught by him.
    -->'SELECT * FROM Faculty WHERE ID =?',[str]
    -->'SELECT * FROM Faculty,Courses WHERE Faculty.ID=Courses.Faculty_ID AND Faculty.ID=?',[str]